

NUMBER: SB 500-35-001, Rev B
MODEL: ECLIPSE EA500
SUBJECT: Crew Oxygen Mask Replacement

Mandatory

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1. PLANNING INFORMATION

A. Effectivity

Aircraft Serial Numbers 000001-000258. are eligible for this Service Bulletin.

B. Reason

Revision B of this service bulletin identifies an updated overhaul kit.
Manufacture recall of the crew mask Injector Plate assembly.

C. Description

This service bulletin provides instructions replace Crew Masks that have been identified with suspect parts per the B/E Aerospace service bulletin 270369-35-01, Rev 01.

D. Relevant Publications

B/E Aerospace SB 27-0369-35-01 Injector Plate assembly PN 270369 Replacement.

E. Compliance

Eclipse Aerospace Incorporated considers this to be a required action. All affected crew mask assemblies must be returned to Eclipse Aerospace.

Overhaul kit # 280030-01 Ref F or later shall be used when overhauling masks per 174252-xx. The revision of the overhaul kit can be confirmed as Rev F if it is manufactured after September of 2009.

F. Approval

This Service Bulletin contains no modification information that revises the approved configuration and therefore does not require governmental or other regulatory agency approval.

G. Labor Requirements

The following information is for planning purposes only.

(1) Estimated labor hours to perform:

Suggested number of personnel: 1

Set up: 1.0 Hours

Inspect and replace mask: 1.0 Hours

Close up and return to service: 1.0 Hours

Total labor hours: 3.0

The above is an estimate based on properly equipped and experienced personnel complying with this Service Bulletin. Actual labor hours may vary depending on workforce experience, concurrent maintenance, discovery of other discrepancies, etc.

(2) Qualification of personnel:

A person properly authorized under 14 CFR 43 to perform aircraft maintenance.

H. Weight and Balance Change

None

I. Electrical Load Data Change

None

J. Software Accomplishment Summary

None

K. References

Eclipse Aircraft Maintenance Manual (AMM) P/N 06-1117751, latest revision.

L. Publications Affected

None

M. Export Control

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2. MATERIAL INFORMATION

A. Materials

Order Non-kitted Parts below if required after inspection.

- (1) **Non-kitted parts** (Non-Kitted parts must be ordered separately.)

Part Number	Description	Qty	Unit of Issue
174252-N1	Crew Mask	As Required	EA.

B. Interchangeability/Intermixability of Parts

None

C. Part Re-identification

None

3. ACCOMPLISHMENT INSTRUCTIONS

A. Procedure

- (1) Make aircraft safe for maintenance. Refer to AMM 20-00-01- MAKE SAFE FOR MAINTENANCE.
- (2) Accomplish B/E Aerospace Service Bulletin 270369-35-01.
 - (a) Inspect crew mask(s) for affected part numbers and manufacturing date. Refer to B/E Aerospace Service Bulletin 270369-35-01. If mask(s) do not require replacement proceed to step (3). If mask(s) require replacement continue to next step.

NOTE: Masks that have been repaired will have the letter "V" following the serial number on the identification plate and do not need to be replaced. See page four of the BE Aerospace service bulletin.
 - (b) Replace crew mask(s) if required. Refer to AMM 35-10-11-001 CREW OXYGEN MASK-REMOVAL and 35-10-041 CREW OXYGEN MASK-INSTALLATION.
 - (c) Return unserviceable mask(s) to Eclipse Aerospace.
 - (d) Perform functional check if mask(s) was replaced. Refer to AMM 35-00-00-071 OXYGEN SYSTEM-ADJUSTMENT/TEST.
- (3) If all other maintenance is complete, return aircraft to service. Refer to AMM 20-00-02-051-801 RETURN TO SERVICE (AFTER MAINTENANCE).

B. Limitations and Procedures

None

C. Parts Disposition

Return to Eclipse Aerospace.

D. Cost

Contact Eclipse Aerospace Customer Care for cost information and availability.

4. RECORD OF COMPLIANCE

Upon completion of this Service Bulletin, make an appropriate maintenance-record entry specifying the Service Bulletin number.

5. NOTIFYING ECLIPSE AEROSPACE

On completing this service bulletin, the operator/maintainer shall complete the attached Compliance Record and send it to Eclipse Aerospace via regular mail, fax, or e-mail.

Mailing Address	Eclipse Aerospace Incorporated ATTN: Service Engineering 2503 Clark Carr Loop SE Albuquerque, NM 87106
Fax	1-505-241-8802
E-mail	sbcompliance@eclipse.aero

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SERVICE BULLETIN

INJECTOR PLATE ASSEMBLY PN 270369 REPLACEMENT

I. Planning Information

A. Effectivity

Regulator assembly part numbers:

172810-00	172810-02
172812-00	172812-02

have injector plate assembly PN 270369 which could have been used in any of the following crew mask part numbers that have a manufacturing date of August 1, 2007 through February 29, 2008:

174250-XX	174670-XX
174252-XX	174672-XX
174260-XX	174680-XX
174262-XX	174682-XX

NOTE: PN 174252-96 crew masks manufactured for Cessna Aircraft Co. are excluded from this effectivity list.

B. Reason

Injector plate assembly leakage in the crew mask regulator.

C. Description

Leaks due to molding flaws can potentially cause a crack in the injector plate (refer to Figure 1). There is concern that if this condition is present, the regulator could leak and depressurize the oxygen supply. Based on the potential leakage of oxygen from the crew mask regulator injector plate assembly, the following actions are recommended as determined by individual aircraft crew system types:

1. For all operators of aircraft with masks of the effective part numbers listed that have a manufacturing date of Aug/2007 through Feb/2008 and oxygen capacities below 77 cu ft and masks stowed in a stowage box - return the mask for replacement of the injector plate.
2. For all operators of aircraft with masks of the effective part numbers listed that have a manufacturing date of Aug/2007 through Feb/2008 and oxygen capacities equal to or above 77 cu ft and masks stowed in a stowage box - return the mask for replacement of the injector plate at your next maintenance period or as available.
3. For all operators of aircraft with masks of the effective part numbers listed that have a manufacturing date of Aug/2007 through Feb/2008 and stowed in stowage cups or stowage pouches - perform audible preflight checks of the masks until they can be returned for replacement of the injector plate assembly.

B/E AEROSPACE Service Bulletin

NOTE: Check for oxygen leaks around the regulator by performing an audible check when the oxygen system is pressurized but not in use by placing your ear close to the mask and listening for sounds of oxygen flowing or hissing. This may require the mask to be unstowed.

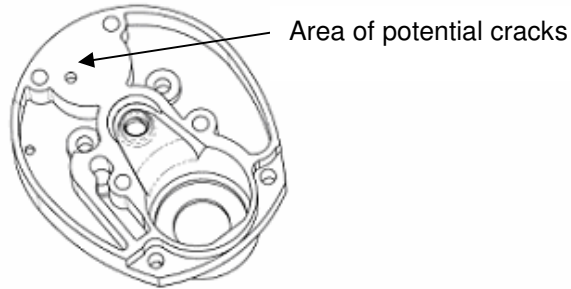


Figure 1
Injector Plate Assembly PN 270369

D. Compliance

Compliance to this Service Bulletin is mandatory. All affected crew mask assemblies **must be returned** to the manufacturer for repair by January 1, 2010.

E. Approval

This Service Bulletin contains no modification information that revises the approved configuration and therefore does not require governmental or other regulatory agency approval.

F. Manpower

Assuming the crew mask regulator is removed from the aircraft, disassembled from the crew mask assembly, and is sitting on a workbench; the following is an estimate of time to accomplish the modification:

Disassembly:	10 min.
Assembly:	10 min.
Test:	45 min.

G. Material - Cost and Availability

1. Replacement requires the following:

<u>Qty</u>	<u>Part Number</u>	<u>Name</u>
1	270369	Injector Plate Assembly

2. Replacement costs are not applicable. For questions, contact B/E Aerospace at the following address:

B/E Aerospace, Inc.
Commercial Aircraft Products Group
10800 Pflumm Road
Lenexa, KS 66215
Telephone: (913) 338-9800
Fax: (913) 469-8419

H. Tooling - Cost and Availability

No special tooling required.

B/E AEROSPACE Service Bulletin

- I. Weight and Balance
This modification will not affect the weight or balance.
- J. Electrical Load Data
This modification will not affect electrical load data.
- K. Publications Reference

<u>Part Number</u>	<u>CMM Number</u>	<u>Dated</u>
174250 Series	35-10-60	2000/06/30
174252 Series		
174260 Series		
174262 Series		
174670 Series		
174672 Series		
174680 Series		
174682 Series		
174252-N1	35-11-41	2005/09/01
172810-00	35-10-61	2005/03/23
172812-00		
172810-02	35-10-62	2005/05/06
172812-02		

II. Accomplishment Instructions

WARNING: THE USE OF OIL AND OTHER PETROLEUM BASE LUBRICANTS ON OXYGEN EQUIPMENT WILL CREATE A DANGEROUS FIRE HAZARD.

CAUTION: THE WORK AREA AS WELL AS ALL INSTRUMENTS, TOOLS, FIXTURES, TEST EQUIPMENT, AND OTHER MATERIALS WHICH COME INTO CONTACT EITHER DIRECTLY OR INDIRECTLY WITH THE UNIT OR ITS PARTS MUST BE CLEAN AND FREE OF HYDROCARBON RESIDUE, OIL, OR OTHER PETROLEUM BASE LUBRICANTS.

NOTE: Check the date on the crew mask to determine the manufacturing date (MFD). The manufacturing date format is MONTH/YEAR and is marked in the lower right hand corner of the label (refer to Figure 3 for location). The affected numbers are 08/07 through 02/08.

- A. Disassembly
 1. Disassemble the regulator assembly and remove the injector plate assembly per instructions in the applicable regulator CMM.
- B. Assembly
 1. Replace the injector plate assembly and reassemble the regulator assembly per instructions in the regulator CMM.

B/E AEROSPACE Service Bulletin

C. Testing

1. Test with the new injector plate installed per instructions in the applicable CMM. The new injector plate assembly PN 270369, Revision H, will have the revision letter molded into the part as shown in Figure 2.

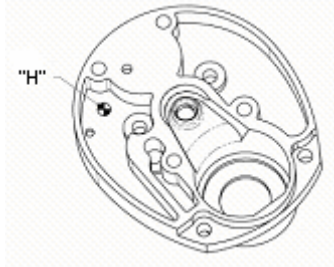


Figure 2
Injector Plate Assembly PN 270369, Revision H

D. Mark Modified Unit

1. Mark the modified unit by turning the mask upside down to reveal the label. Mark the letter "V" above the word "MOD" on the label as shown in Figure 3 using "black" permanent ink, a decal, or replace the label as preferred.

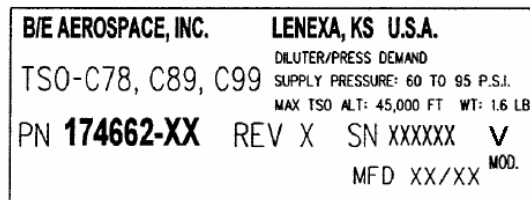


Figure 3
Typical Label Marked with MOD Letter "V"

III. Material Information

Table 1
Materials List

FIG. NO.	ITEM NO.	NEW PART NO.	NEW /RU QTY	DESCRIPTION	OLD PART NO.	INSTRUCTIONS/ DISPOSITION
1			1	Injector Plate Assembly	270369	DISPOSE
2		270369 (Rev H)	1	Injector Plate Assembly		NEW